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63 194 29.3 698 13 BX260830 BX260830
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67 194 29.3 752 13 B0414994 B0414994
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69 194 29.3 768 13 B0412690 B0412690
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77 194 29.3 808 13 B0397453 B0397453
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79 194 29.3 822 10 B0101052 B0101052
80 194 29.2 822 10 B0303614 B0303614
81 193 29.2 428 10 B0789469 B0789469
82 192.5 29.1 391 10 B075390 B075390
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84 192 29.0 457 9 AA099304 AA099304
85 192 29.0 461 9 AA273692 AA273692
86 192 29.0 499 14 CA941070 CA941070
87 192 29.0 553 10 B075374 B075374
88 192 29.0 611 12 B0113151 B0113151
89 192 29.0 626 13 B0632674 B0632674
90 192 29.0 750 13 B0909677 B0909677
91 192 29.0 756 13 B0413118 B0413118
92 192 29.0 922 13 B0914040 B0914040
93 192 29.0 945 14 B020217 B020217
94 191 28.9 510 13 B0274070 B0274070
95 191 28.9 513 12 B029640 B029640
96 191 28.9 531 10 B075368 B075368
97 191 28.9 647 14 CA381325 CA381325
98 191 28.9 649 13 B0077234 B0077234
99 191 28.9 1050 13 BX419276 BX419276
100 191 28.9 1050 13 BX419276 BX419276

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ALIGNMENTS

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RESULT 1
AV392837 466 bp mRNA linear EST 23-APR-2002
LOCUS AV392837 Chlamydomonas reinhardtii C9 Chlamydomonas reinhardtii
DEFINITION AV392837 C9 Chlamydomonas reinhardtii C9 Chlamydomonas reinhardtii
VERSION AV392837.1 GI:6547053
KEYWORDS EST.
SOURCE Chlamydomonas reinhardtii
ORGANISM Chlamydomonas reinhardtii

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REFERENCE
AUTHORS Asamizu, E., Nakamura, Y., Sato, S., Fukuzawa, H. and Tabata, S.
TITLE A large scale structural analysis of cDNAs in a unicellular green
non-redundant expressed sequence tags
JOURNAL DNA Res. 6 (6), 369-373 (1999)
MEDLINE 20152988
PUBMED 10691129

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COMMENT The First Laboratory for Plant Gene Research
Contact: Yasukazu Nakamura
Kazusa DNA Research Institute
Yana 1532-3, Kisarazu, Chiba 292-0812, Japan
Email: ynakam@kazusa.or.jp. URL: http://www.kazusa.or.jp/en/plant/.
Location/Qualifiers
1. 466
/organism="Chlamydomonas reinhardtii"
/mol_type="mRNA"
/strain="C9"
/db_xref="taxon:3055"

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/clone="CM100a09_r"
/dev_stage="photoautotrophic growth"
/clone_lib="Chlamydomonas reinhardtii C9"
/Note="Vector: pBluescript SK-; Site_1: EcoRI; Site_2
XhoI"
BASE COUNT 139 a 106 c 134 g 87 t
ORIGIN
Alignment Scores:
Pred. No.: 1,15e-40 Length: 466
Score: 577.00 Matches: 122
Percent Similarity: 99.198 Conservative: 0
Best Local Similarity: 99.198 Mismatches: 1
Query Match: 87.294 Indels: 1
DB: 9 Gaps: 0

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US-09-866-582a-2 (1-135) x AV392837 (1-466)

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QY 1 MetASPAlaValAspArgGlyValTyrPheAspGluAspPheHisValArgIleLeuAsp
DB ATGGAGCGCGTAGATAGAGAGAGCTTCTTGCAGAGAGAGCTTCATGCTCCGCTTGTGAT 157
21 ValAspLysTyrAsnAlaSerLysSerLeuGlnAspAsnThrAsnValPheIleAsnAsp
DB GTTGACAGCTACAAATGCTTCAGAGCTCCGAGCAACAAATGCTTCATTACAC 217
158 GTTGACAGCTACAAATGCTTCAGAGCTCCGAGCAACAAATGCTTCATTACAC 217
QY 41 IleGlnAspMetGlnGlyLeuValAspLysTyrValSerAlaIleAspGlnValGlu
DB ATCCAAATATATCAAGAGCGCTCGTGACAGTAGTCGTCGCCATCGACAGAGGTCAG 277
218 ATCCAAATATATCAAGAGCGCTCGTGACAGTAGTCGTCGCCATCGACAGAGGTCAG 277
QY 61 ArgLeuGlnAlaGlyLeuLeuValAlaIleGlyLeuArgAsnArgValAlaIleAsnSer
DB CGGCTTATAGAGCTGAAAGCTGAAAGCTGAAAGCTGAAAGCTGAAAGCTGAAAGCTGAA 337
278 CGGCTTATAGAGCTGAAAGCTGAAAGCTGAAAGCTGAAAGCTGAAAGCTGAAAGCTGAA 337
QY 81 GluGluArgLysArgLysGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnGln
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338 GAGGAGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 397
QY 101 LeuGluArgLysGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnGln
DB CTTGAGAGGCTCCAAATGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 456
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QY 121 MetIleGln 123
DB ATGATTTCAG 465

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RESULT 2
BE352290 493 bp mRNA linear EST 18-JUL-2000
LOCUS BE352290 C9 Chlamydomonas reinhardtii CC-1690, normalized, lambda Zap II
DEFINITION BE352290 C9 Chlamydomonas reinhardtii CC-1690, normalized, lambda Zap II
VERSION BE352290
KEYWORDS EST.
SOURCE Chlamydomonas reinhardtii
ORGANISM Chlamydomonas reinhardtii
REFERENCE
AUTHORS Grossman, A., Davies, J., Federpiet, N., Harris, E., Lefebvre, P.,
McDermott, J.P., Sillow, C., Stern, D. and Surzycki, R.
TITLE Analyses of the Chlamydomonas reinhardtii Genome: A Model,
Unicellular System for Analyzing Gene Function and Regulation in
Vascular Plants: project phase 2
JOURNAL Unpublished
COMMENT Contact: Elizabeth H. Harris
DCMB Box 91000
Duke University
Durham, NC 27708-1000, USA
Tel: 919 613 8164
Fax: 919 613 8177
Email: chlamy@duke.edu
Location/Qualifiers

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FEATURES

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source
1. 493
/organism="Chlamydomonas reinhardtii"
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II"
/note="vector: pBluescript II SK-; Site 1: EcoRI, Site 2:
XhoI. This library, constructed by John Davies and Jeffrey
McDermott, combines cDNAs from CC-1690 cells grown to
mid-log phase in YAP (acetate-containing) medium in the
light, YAP medium in the dark, HS (minimal) medium in
ambient levels of CO2 and HS medium bubbled with 5% CO2.
PolyA mRNA was purified from each sample, pooled and cDNA
synthesized. The cDNA was directionally cloned into lambda
ZAP II (Stratagene) in the EcoRI (5') and XhoI (3') sites.
pBluescript II SK- plasmids were excised from the lambda
ZAP clones by superinfection with ExAssist (Stratagene)
phage. The library was normalized using method 4 described
in Bonaldo et al (1996) Genome Research 6: 791-806."

BASE COUNT      88 a      182 c      101 g      122 t

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Alignment Scores:
Pred. No.:      1,76e-10      Length:      493
Score:          227.00      Matches:      48
Percent Similarity: 100.00%      Conservative: 0
Best Local Similarity: 100.00%      Mismatches: 0
Query Match:      34.34%      Indels:      0
DB:              10      Gaps:      0

US-09-866-582A-2 (1-135) x BE352290 (1-493)
OY      88      LysGluGlnGlnUArgMetLeuAlaGluLysGlnGlnGluLeuGlnUArgGlnMetGln 107
        |||||||
        493      AGAGGAGCAGAGAGCGCATGCTAGCGGAGACAAGCAGAGAGCTTGACAGAGCTCCAAATGAG 434
OY      108      GluGlnSerLeuIleLeuValLysGlyGlnGlnGlnLeuMetIleGlnLysLeuSerAsp 127
        |||||||
        433      GAGCAGTGGCTGATCAAGGTGAAGGCGAGCAGAGAGCTCATGATTCAGAAAGCTGTGGAC 374
OY      128      SerSerSerGlyAlaAlaIleVal 135
        |||||||
        Db      373      AGCAGCAGCGGGCGGCATACGTG 350

RESULT 3
BM280429      646 bp      mRNA      linear      EST 11-NOV-2002
LOCUS      BM280429      Nori Satoh unpublished cDNA library, gonad Clona
DEFINITION      Inest1nalls cDNA clone cigd013n23 5', mRNA sequence.
ACCESSION      BM280429
VERSION      BM280429.1 GI:24861040
KEYWORDS      EST.
SOURCE      Clona intestinalis
ORGANISM      Clona intestinalis
Eukaryota; Metazoa; Chordata; Urochordata; Ascidiacea; Enterogona;
Phlebobranchia; Clonidae; Clona.
1 (bases 1 to 646)
Satou,Y., Shin-I,T., Kohara,Y. and Satoh,N.
Tel: 81-75-753-4081
Fax: 81-75-705-1113
Email: satoh@esclidian.zool.kyoto-u.ac.jp.
Unpublished
Contact: Nori Satoh
Department of Zoology,
Kyoto University
Sakyo-ku, Kyoto, Kyoto 606-8502, Japan
Tel: 81-75-753-4081
Fax: 81-75-705-1113
Email: satoh@esclidian.zool.kyoto-u.ac.jp.
Location/Qualifiers
1. 646
/organism="Clona intestinalis"
/mol_type="mRNA"
/db_xref="taxon:7719"

FEATURES
source

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Pred. No.:		202 00	Matches:	41	
Score:		61.48%	Conservative:	34	
Percent Similarity:		33.61%	Mismatches:	47	
Best Local Similarity:		30.56%	Indels:	0	
Query Match:		13	Gaps:	0	
DB:					
US-09-866-582A-2 (1-135) x BW280429 (1-646)					
Qy	7	GLYVALTYRHPHASPGLUASPHEHISVALARGILLEUASPYVALSPLYSTRASNALA	26		
Db	63	GGCGTTCTATTGTGAGCAAGTTAAACAACTCTGAGACTTTTAAACACGACACTAATCAGCAC	122		
Qy	27	SERYSSERLEUGINASPASTHFRASVALPHETILEASNAIIEGLINASMEUGINGLY	46		
Db	123	ACATCTGAACTGGAAGAGCAATGCCACGCAATTCTCTCGAAATTCGACCAAGTTCCAAAA	182		
Qy	47	LEUVALSPLYSTRYVALSERVALALEASPCLINGVALGLUARGLEUVALAGLUYS	66		
Db	183	CTTGTTGGTACTTCATGATAGATATACGACCCACCAATCCCAAAAAGATGTTGAATAATGACAAA	242		
Qy	67	LEUVALALIEGLYLEUVALASNAARGVALALALEUSERGILUVALTYRGLYLS	86		
Db	243	ATGAAGACCATCGGTTCTCTGTAACATGCTCAAGTCAATTGCCAAGCAGAGGAAATCCAC	302		
Qy	87	GLNLYSGILUINGLUARGMETLEUVALAGLUYSGLINGILUINGLUARGLEUGLMET	106		
Db	303	CACACACAGTTGCAAGCACTATACGCGAGAGAAACACAACTTGACCGTTGAATCTGTG	362		
Qy	107	GLUGLUGINSELEUVALYVALYSGLYGLINGILUEMCUIIEGLINLYLSAUSCR	126		
Db	363	CACACACAGTCTCTAAGAAACACAGAGCGTGAACAAAGTTGAATTCATGACCAATCTTCA	422		
Qy	127	ASPSER	128		
Db	423	ACTCTC	428		
RESULT 4					
LOCUS	BM280674	653 bp	mRNA	linear	EST J1-NOV-2002
DEFINITION	BM280674	Nori Satoh unpublished cDNA library, gonad	Clona		
ACCESSION	BM280674	Intestinalis cDNA clone cigd014j07 5', mRNA sequence.			
VERSION	BM280674.1	GI:24861285			
KEYWORDS	EST.				
SOURCE	Clona intestinalis				
ORGANISM	Eukaryota; Metazoa; Chordata; Urochordata; Ascidiacea; Enterogona;				
REFERENCE	1 (bases 1 to 653)				
AUTHORS	Satoh, Y., Shin-I, T., Kohara, Y. and Satoh, N.				
TITLE	Expressed genes in Clona intestinalis (2002c)				
JOURNAL	Unpublished				
COMMENT	Contact: Nori Satoh				
	Department of Zoology				
	Kyoto University				
	Sakyo-ku, Kyoto 606-8502, Japan				
	Tel: 81-75-753-4081				
	Fax: 81-75-705-1113				
	Email: satoh@ascidian.zool.kyoto-u.ac.jp.				
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